RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: ___10/524,643___
Source: ___IFW16___
Date Processed by STIC: ___10/27/2005___

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RAW SEQUENCE LISTING   DATE: 10/27/2005
PATENT APPLICATION: US/10/524,643   TIME: 12:39:52

Input Set : A:\22259-10-1US.ST25.txt
Output Set: N:\CRF4\10272005\J524643.raw

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 3 <110> APPLICANT: GARREN, Hideki
 4         HO, Peggy P.
 5         STEINMAN, Lawrence
 7 <120> TITLE OF INVENTION: METHODS AND IMMUNE MODULATORY NUCLEIC ACID COMPOSITIONS FOR
 8       PREVENTING AND TREATING DISEASE
10 <130> FILE REFERENCE: 022259-001010US
12 <140> CURRENT APPLICATION NUMBER: 10/524,643
13 <141> CURRENT FILING DATE: 2005-02-10
15 <150> PRIOR APPLICATION NUMBER: PCT/US2003/037157
16 <151> PRIOR FILING DATE: 2003-11-21
18 <160> NUMBER OF SEQ ID NOS: 296
20 <170> SOFTWARE: PatentIn version 3.3
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24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: immunomodulatory oligonucleotide
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37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
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63 <220> FEATURE:
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85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
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156  <212> TYPE: DNA
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                Input Set : A:\22259-10-1US.ST25.txt
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283 atgctc   6
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359 <211> LENGTH: 6
360 <212> TYPE: DNA
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/27/2005
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:53; N Pos. 13,14
Seq#:54; N Pos. 13,14
Seq#:55; N Pos. 1,2,3,4,5,6,7,8,9,10,13,14,17,18,19,20,21,22,23,24,25,26
Seq#:56; N Pos. 1,2,3,4,5,6,7,8,9,10,13,14,17,18,19,20,21,22,23,24,25,26
Seq#:117; N Pos. 11
Seq#:118; N Pos. 11
Seq#:119; N Pos. 11
Seq#:120; N Pos. 11
Seq#:121; N Pos. 11
Seq#:122; N Pos. 11
Seq#:123; N Pos. 11
Seq#:124; N Pos. 11
Seq#:125; N Pos. 11
Seq#:126; N Pos. 11
Seq#:127; N Pos. 11
Seq#:128; N Pos. 11
Seq#:129; N Pos. 11
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Seq#:136; N Pos. 11
Seq#:137; N Pos. 11
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Seq#:139; N Pos. 11
Seq#:140; N Pos. 11
Seq#:141; N Pos. 11
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Seq#:143; N Pos. 11
Seq#:144; N Pos. 11
Seq#:145; N Pos. 11
Seq#:146; N Pos. 11
Seq#:147; N Pos. 11
Seq#:148; N Pos. 11
Seq#:231; N Pos. 11
Seq#:232; N Pos. 11
Seq#:233; N Pos. 11
Seq#:234; N Pos. 11
Seq#:235; N Pos. 11
Seq#:236; N Pos. 11
Seq#:237; N Pos. 11
Seq#:238; N Pos. 11

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Input Set : **A:\22259-10-1US.ST25.txt**
Output Set: **N:\CRF4\10272005\J524643.raw**

Seq#:239; N Pos. 11
Seq#:240; N Pos. 11
Seq#:241; N Pos. 11
Seq#:242; N Pos. 11
Seq#:243; N Pos. 11
Seq#:244; N Pos. 11
Seq#:245; N Pos. 11

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Input Set : A:\22259-10-1US.ST25.txt
Output Set: N:\CRF4\10272005\J524643.raw

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L:709  M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:737  M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:1475 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
L:1493 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
L:1511 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
L:1529 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:1547 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:121 after pos.:0
L:1565 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
L:1583 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:1601 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:1619 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:1637 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:0
L:1655 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:1673 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0
L:1691 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:1709 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:1727 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:0
L:1745 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:0
L:1763 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:0
L:1781 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:0
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L:1817 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:0
L:1835 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:0
L:1853 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:1871 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:0
L:1889 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0
L:1907 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
L:1925 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:1943 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0
L:1961 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:0
L:1979 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:1997 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2015 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:0
L:2033 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:0
L:3040 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:231 after pos.:0
L:3058 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:0
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L:3094 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
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L:3130 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:0
L:3148 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:0
L:3166 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:0
L:3184 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:239 after pos.:0
L:3202 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:240 after pos.:0
L:3220 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:241 after pos.:0
L:3238 M:341 W:  (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
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L:3256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243 after pos.:0
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